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$  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:35:31 ON 05 JAN 2006

=> FIL HOME
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.06       0.27

FILE 'HOME' ENTERED AT 08:35:43 ON 05 JAN 2006

=> fil .bec
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.42       0.69

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
       ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 08:36:39 ON 05 JAN 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY.  SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s gst or glutathione s transferase#
FILE 'MEDLINE'
          9329 GST
         68231 GLUTATHIONE
       5076724 S
         56599 TRANSFERASE#
         14363 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L1       17524 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'SCISEARCH'
          9356 GST
         63820 GLUTATHIONE
       1709582 S
         44600 TRANSFERASE#
         17128 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L2       20256 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'LIFESCI'
          3833 GST
         16273 "GLUTATHIONE"
        351703 "S"
         14169 TRANSFERASE#
          5931 GLUTATHIONE S TRANSFERASE#
                 ("GLUTATHIONE"(W)"S"(W)TRANSFERASE#)
L3        7255 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOTECHDS'
           736 GST
          2531 GLUTATHIONE
         52476 S
          3789 TRANSFERASE#
           762 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L4        1115 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOSIS'
         11555 GST
         75290 GLUTATHIONE
       1355100 S
         76487 TRANSFERASE#
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         19495 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L5       23596 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'EMBASE'
          8492 GST
         59183 "GLUTATHIONE"
       1291497 "S"
         40613 TRANSFERASE#
         13136 GLUTATHIONE S TRANSFERASE#
                 ("GLUTATHIONE"(W)"S"(W)TRANSFERASE#)
L6       15936 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'HCAPLUS'
         12105 GST
         84807 GLUTATHIONE
       2762707 S
         52460 TRANSFERASE#
         20327 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L7       24191 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'NTIS'
            65 GST
           494 GLUTATHIONE
        439868 S
          1324 TRANSFERASE#
            58 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L8         105 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'ESBIOBASE'
          6603 GST
         27416 GLUTATHIONE
        450062 S
         34583 TRANSFERASE#
          9191 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L9       11430 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOTECHNO'
          4283 GST
         16276 GLUTATHIONE
        236253 S
         16723 TRANSFERASE#
          6443 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L10       7999 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'WPIDS'
           674 GST
          3502 GLUTATHIONE
       4473332 S
          5589 TRANSFERASE#
           807 GLUTATHIONE S TRANSFERASE#
                 (GLUTATHIONE(W)S(W)TRANSFERASE#)
L11       1145 GST OR GLUTATHIONE S TRANSFERASE#

TOTAL FOR ALL FILES
L12     130552 GST OR GLUTATHIONE S TRANSFERASE#

=> s l12 and (engineer? or shuffl?)
FILE 'MEDLINE'
         63255 ENGINEER?
```

```
          1540 SHUFFL?
L13        143 L1 AND (ENGINEER? OR SHUFFL?)

FILE 'SCISEARCH'
        134480 ENGINEER?
          2841 SHUFFL?
L14        148 L2 AND (ENGINEER? OR SHUFFL?)

FILE 'LIFESCI'
         21000 ENGINEER?
           839 SHUFFL?
L15         74 L3 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOTECHDS'
         28194 ENGINEER?
           495 SHUFFL?
L16        118 L4 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOSIS'
        168957 ENGINEER?
          1647 SHUFFL?
L17        409 L5 AND (ENGINEER? OR SHUFFL?)

FILE 'EMBASE'
         84959 ENGINEER?
          1316 SHUFFL?
L18        143 L6 AND (ENGINEER? OR SHUFFL?)

FILE 'HCAPLUS'
        156863 ENGINEER?
          2641 SHUFFL?
L19        379 L7 AND (ENGINEER? OR SHUFFL?)

FILE 'NTIS'
        184398 ENGINEER?
           274 SHUFFL?
L20          6 L8 AND (ENGINEER? OR SHUFFL?)

FILE 'ESBIOBASE'
         52083 ENGINEER?
           987 SHUFFL?
L21        661 L9 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOTECHNO'
         62582 ENGINEER?
           812 SHUFFL?
L22        121 L10 AND (ENGINEER? OR SHUFFL?)

FILE 'WPIDS'
        176351 ENGINEER?
          1303 SHUFFL?
L23         48 L11 AND (ENGINEER? OR SHUFFL?)

TOTAL FOR ALL FILES
L24       2250 L12 AND (ENGINEER? OR SHUFFL?)

=> s l24 and herbicide#
FILE 'MEDLINE'
         10536 HERBICIDE#
L25          2 L13 AND HERBICIDE#

FILE 'SCISEARCH'
         25417 HERBICIDE#
L26         10 L14 AND HERBICIDE#
```

```
FILE 'LIFESCI'
          6331 HERBICIDE#
L27          0 L15 AND HERBICIDE#

FILE 'BIOTECHDS'
          5784 HERBICIDE#
L28          7 L16 AND HERBICIDE#

FILE 'BIOSIS'
         49787 HERBICIDE#
L29          6 L17 AND HERBICIDE#

FILE 'EMBASE'
          9807 HERBICIDE#
L30          3 L18 AND HERBICIDE#

FILE 'HCAPLUS'
         83047 HERBICIDE#
L31         28 L19 AND HERBICIDE#

FILE 'NTIS'
          3765 HERBICIDE#
L32          0 L20 AND HERBICIDE#

FILE 'ESBIOBASE'
          8422 HERBICIDE#
L33         10 L21 AND HERBICIDE#

FILE 'BIOTECHNO'
          3463 HERBICIDE#
L34          1 L22 AND HERBICIDE#

FILE 'WPIDS'
         31262 HERBICIDE#
L35          3 L23 AND HERBICIDE#

TOTAL FOR ALL FILES
L36         70 L24 AND HERBICIDE#

=> s l36 not 2001-2005/py
FILE 'MEDLINE'
       2821767 2001-2005/PY
L37          0 L25 NOT 2001-2005/PY

FILE 'SCISEARCH'
       5297496 2001-2005/PY
                 (20010000-20059999/PY)
L38          0 L26 NOT 2001-2005/PY

FILE 'LIFESCI'
        513673 2001-2005/PY
L39          0 L27 NOT 2001-2005/PY

FILE 'BIOTECHDS'
        118977 2001-2005/PY
L40          1 L28 NOT 2001-2005/PY

FILE 'BIOSIS'
       2618573 2001-2005/PY
L41          3 L29 NOT 2001-2005/PY

FILE 'EMBASE'
       2432092 2001-2005/PY
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L42           1 L30 NOT 2001-2005/PY

FILE 'HCAPLUS'
       5322712 2001-2005/PY
L43           0 L31 NOT 2001-2005/PY

FILE 'NTIS'
         79625 2001-2005/PY
L44           0 L32 NOT 2001-2005/PY

FILE 'ESBIOBASE'
       1484795 2001-2005/PY
L45           2 L33 NOT 2001-2005/PY

FILE 'BIOTECHNO'
        368875 2001-2005/PY
L46           1 L34 NOT 2001-2005/PY

FILE 'WPIDS'
       4680242 2001-2005/PY
L47           0 L35 NOT 2001-2005/PY

TOTAL FOR ALL FILES
L48           8 L36 NOT 2001-2005/PY

=> dup rem l48
PROCESSING COMPLETED FOR L48
L49           7 DUP REM L48 (1 DUPLICATE REMOVED)

=> d tot

L49  ANSWER 1 OF 7  BIOSIS  COPYRIGHT (c) 2006 The Thomson Corporation  on STN
TI   Plant-derived enzyme and DNA sequences and uses thereof.
SO   Official Gazette of the United States Patent and Trademark Office Patents,
     (May 23, 2000) Vol. 1234, No. 4. e-file.
     CODEN: OGUPE7. ISSN: 0098-1133.
AU   Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William
     Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David
     Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter
     [Inventor]
AN   2001:1330  BIOSIS

L49   ANSWER 2 OF 7  Elsevier BIOBASE  COPYRIGHT 2006 Elsevier Science B.V. on
      STN
AN    1999198043   ESBIOBASE
TI    Characterization of recombinant corn glutathione S-
      transferase isoforms I, II, III, and IV
AU    Sommer A.; Boger P.
CS    A. Sommer, Lehrstuhl fur Physiologie, Biochemie der Pflanzen, Universitat
      Konstanz, D-78457 Konstanz, Germany.
SO    Pesticide Biochemistry and Physiology, (1999), 63/3 (127-138), 41
      reference(s)
      CODEN: PCBPBS  ISSN: 0048-3575
DT    Journal; Article
CY    United States
LA    English
SL    English

L49  ANSWER 3 OF 7  EMBASE  COPYRIGHT (c) 2006 Elsevier B.V. All rights
     reserved on STN                                    DUPLICATE 1
TI   Bacterial glutathione S-transferases: What
     are they good for?.
SO   Journal of Bacteriology, (1997) Vol. 179, No. 5, pp. 1431-1441.
     Refs: 94
```

ISSN: 0021-9193 CODEN: JOBAAY
AU Vuilleumier S.
AN 97071227 EMBASE

L49 ANSWER 4 OF 7 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1997147773 ESBIOBASE
TI Soluble overexpression in Escherichia coli, and purification and characterization of wild-type recombinant tobacco acetolactate synthase
AU Chang S.-I.; Kang M.-K.; Choi J.-D.; Namgoong S.K.
CS S.-I. Chang, Department of Biochemistry, Chungbuk National University, Cheongju 361-763, South Korea.
E-mail: sichang@cbucc.chungbuk.ac.kr
SO Biochemical and Biophysical Research Communications, (1997), 234/3 (549-553), 35 reference(s)
CODEN: BBRCA0 ISSN: 0006-291X
DT Journal; Article
CY United States
LA English
SL English

L49 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI GENETICALLY **ENGINEERED** PLANTS FOR **HERBICIDE** RESISTANCE.
SO Biotechnol. Agric. Ser., (1992) pp. 75-107. GATEHOUSE, A. M. R., V. A. HILDER AND D. BOULTER (ED.). BIOTECHNOLOGY IN AGRICULTURE, NO. 7. PLANT GENETIC MANIPULATION FOR CROP PROTECTION. XIII+266P. C.A.B. INTERNATIONAL: WALLINGFORD, ENGLAND, UK; TUCSON, ARIZONA, USA. ILLUS.
Publisher: Series: Biotechnology in Agriculture Series.
CODEN: BIAGEN. ISSN: 0960-202X. ISBN: 0-85198-707-9.
AU MULLINEAUX P M [Reprint author]
AN 1992:419952 BIOSIS

L49 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI TOTAL CHEMICAL SYNTHESIS AND EXPRESSION IN ESCHERICHIA-COLI OF A MAIZE GLUTATHIONE TRANSFERASE **GST** GENE.
SO Gene (Amsterdam), (1989) Vol. 76, No. 1, pp. 153-160.
CODEN: GENED6. ISSN: 0378-1119.
AU WOSNICK M A [Reprint author]; BARNETT R W; CARLSON J E
AN 1989:268026 BIOSIS

L49 ANSWER 7 OF 7 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Structural analysis of a maize gene coding for **glutathione-S-transferase** involved in **herbicide** detoxification;
cloning and DNA sequence
SO Plant Mol.Biol.; (1986) 6, 4, 203-11
CODEN: PMBIDB
AU Shah D M; Hironaka C M; Wiegand R C; Harding E I; Krivi G G; Tiemeier C
AN 1986-05927 BIOTECHDS

=> d bib

L49 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 2001:1330 BIOSIS
DN PREV200100001330
TI Plant-derived enzyme and DNA sequences and uses thereof.
AU Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter [Inventor]
CS Silchester, UK
ASSIGNEE: Zeneca Limited, London, UK

PI US 6066456 20000523
SO Official Gazette of the United States Patent and Trademark Office Patents, (May 23, 2000) Vol. 1234, No. 4. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 21 Dec 2000
Last Updated on STN: 21 Dec 2000

=> d ab

L49 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AB The chemically-inducible 27 kD subunit of the enzyme **glutathione -S-transferase**, isoform II (**GST**-II-27) and sequences encoding it are provided. In particular, a genomic DNA sequence encoding the gene promoter for the **GST**-II-27 subunit is provided. Then linked to an exogenous gene and introduced into a plant by transformation, and **GST**-II-27 promoter provides a means for the external regulation of expression of that exogenous gene. Transformation with DNA encoding **glutathione-S-transferase** polypeptides produces **herbicide** resistance transgenic plants.

=> s l24 and plant#
FILE 'MEDLINE'
257764 PLANT#
L50 6 L13 AND PLANT#

FILE 'SCISEARCH'
421577 PLANT#
L51 13 L14 AND PLANT#

FILE 'LIFESCI'
173354 PLANT#
L52 2 L15 AND PLANT#

FILE 'BIOTECHDS'
60825 PLANT#
L53 24 L16 AND PLANT#

FILE 'BIOSIS'
2395385 PLANT#
L54 61 L17 AND PLANT#

FILE 'EMBASE'
190108 PLANT#
L55 3 L18 AND PLANT#

FILE 'HCAPLUS'
953985 PLANT#
L56 57 L19 AND PLANT#

FILE 'NTIS'
146817 PLANT#
L57 0 L20 AND PLANT#

FILE 'ESBIOBASE'
342407 PLANT#
L58 38 L21 AND PLANT#

FILE 'BIOTECHNO'
98706 PLANT#
L59 4 L22 AND PLANT#

```
FILE 'WPIDS'
        268427 PLANT#
L60          18 L23 AND PLANT#

TOTAL FOR ALL FILES
L61         226 L24 AND PLANT#

=> s l61 not 2001-2005/py
FILE 'MEDLINE'
       2821767 2001-2005/PY
L62           1 L50 NOT 2001-2005/PY

FILE 'SCISEARCH'
       5297496 2001-2005/PY
                 (20010000-20059999/PY)
L63           2 L51 NOT 2001-2005/PY

FILE 'LIFESCI'
        513673 2001-2005/PY
L64           0 L52 NOT 2001-2005/PY

FILE 'BIOTECHDS'
        118977 2001-2005/PY
L65           3 L53 NOT 2001-2005/PY

FILE 'BIOSIS'
       2618573 2001-2005/PY
L66          34 L54 NOT 2001-2005/PY

FILE 'EMBASE'
       2432092 2001-2005/PY
L67           1 L55 NOT 2001-2005/PY

FILE 'HCAPLUS'
       5322712 2001-2005/PY
L68          12 L56 NOT 2001-2005/PY

FILE 'NTIS'
         79625 2001-2005/PY
L69           0 L57 NOT 2001-2005/PY

FILE 'ESBIOBASE'
       1484795 2001-2005/PY
L70          20 L58 NOT 2001-2005/PY

FILE 'BIOTECHNO'
        368875 2001-2005/PY
L71           3 L59 NOT 2001-2005/PY

FILE 'WPIDS'
       4680242 2001-2005/PY
L72           0 L60 NOT 2001-2005/PY

TOTAL FOR ALL FILES
L73          76 L61 NOT 2001-2005/PY

=> dup rem l73
PROCESSING COMPLETED FOR L73
L74          61 DUP REM L73 (15 DUPLICATES REMOVED)

=> d tot

L74  ANSWER 1 OF 61  BIOSIS  COPYRIGHT (c) 2006 The Thomson Corporation  on STN
```

TI **Plant**-derived enzyme and DNA sequences and uses thereof.
SO Official Gazette of the United States Patent and Trademark Office Patents, (May 23, 2000) Vol. 1234, No. 4. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
AU Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter [Inventor]
AN 2001:1330 BIOSIS

L74 ANSWER 2 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Use of **glutathione-S-transferase** gene to increase stress tolerance in transgenic **plants**
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
IN Drost, Dirk Cooper; Buren, Lawrence Lamont; Jepson, Ian; Daly, Allan
AN 2000:628287 HCAPLUS
DN 133:220355

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052182	A1	20000908	WO 2000-GB750	20000302

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L74 ANSWER 3 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Regulation of the yeast transcriptional factor PHO2 activity by phosphorylation.
SO Journal of Biological Chemistry, (October 13, 2000) Vol. 275, No. 41, pp. 31972-31978. print.
CODEN: JBCHA3. ISSN: 0021-9258.
AU Liu, Cheng; Yang, Zhiyong; Yang, Jun; Xia, Zanxian; Ao, Shizhou [Reprint author]
AN 2000:531968 BIOSIS

L74 ANSWER 4 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Construction and characterization of an Escherichia coli strain genetically **engineered** for Ni(II) bioaccumulation.
SO Applied and Environmental Microbiology, (December 2000) Vol. 66, No. 12, pp. 5383-5386. print.
ISSN: 0099-2240 (ISSN print).
AU Krishnaswamy, Rahul; Wilson, David B. [Reprint Author]
AN 2003:572957 BIOSIS

L74 ANSWER 5 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI A short review on the role of glutathione in the response of yeasts to nutritional, environmental, and oxidative stresses.
SO Enzyme and Microbial Technology, (June, 2000) Vol. 26, No. 9-10, pp. 737-742. print.
CODEN: EMTED2. ISSN: 0141-0229.
AU Penninckx, Michel [Reprint author]
AN 2000:388553 BIOSIS

L74 ANSWER 6 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Cloning of a palmitoyl-acyl carrier protein thioesterase from oil palm.
SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp. 619-622. print.
CODEN: BCSTB5. ISSN: 0300-5127.

AU Othman, A. [Reprint author]; Lazarus, C.; Fraser, T.; Stobart, K.
AN 2001:186327 BIOSIS

L74 ANSWER 7 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 2000101551 ESBIOBASE
TI A high-affinity calmodulin-binding site in a tobacco plasma-membrane channel protein coincides with a characteristic element of cyclic nucleotide-binding domains
AU Arazi T.; Kaplan B.; Fromm H.
CS H. Fromm, Centre for Plant Sciences, Leeds Inst. for Biotechnol./Agric., University of Leeds, Leeds LS2 9JT, United Kingdom.
SO Plant Molecular Biology, (2000), 42/4 (591-601), 40 reference(s)
CODEN: PMBIDB ISSN: 0167-4412
DT Journal; Article
CY Netherlands
LA English
SL English

L74 ANSWER 8 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI A transformation vector for the production of marker-free transgenic **plants** containing a single copy transgene at high frequency.
SO Plant Journal, (June, 2000) Vol. 22, No. 5, pp. 461-469. print.
ISSN: 0960-7412.
AU Sugita, Koichi; Kasahara, Takehide; Matsunaga, Etsuko; Ebinuma, Hiroyasu [Reprint author]
AN 2000:314366 BIOSIS

L74 ANSWER 9 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Functional cloning and mutational analysis of the human cDNA for phosphoacetylglucosamine mutase: Identification of the amino acid residues essential for the catalysis.
SO Biochimica et Biophysica Acta, (24 July, 2000) Vol. 1492, No. 2-3, pp. 369-376. print.
CODEN: BBACAQ. ISSN: 0006-3002.
AU Mio, Toshiyuki; Yamada-Okabe, Toshiko; Arisawa, Mikio; Yamada-Okabe, Hisafumi [Reprint author]
AN 2000:398390 BIOSIS

L74 ANSWER 10 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 2000053659 ESBIOBASE
TI Cloning and characterization of glyoxalase I from soybean
AU Skipsey M.; Andrews C.J.; Townson J.K.; Jepson I.; Edwards R.
CS R. Edwards, Department of Biological Sciences, University of Durham, Durham DH1 3LE, United Kingdom.
E-mail: robert.edwards@durham.ac.uk
SO Archives of Biochemistry and Biophysics, (15 FEB 2000), 374/2 (261-268), 33 reference(s)
CODEN: ABBIA4 ISSN: 0003-9861
DT Journal; Article
CY United States
LA English
SL English

L74 ANSWER 11 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Genetic approaches to identify the function of DRG1p in Saccharomyces cerevisiae.
SO Molecular Biology of the Cell, (Dec., 2000) Vol. 11, No. Supplement, pp. 223a. print.
Meeting Info.: 40th American Society for Cell Biology Annual Meeting. San Francisco, CA, USA. December 09-13, 2000. American Society for Cell Biology.

CODEN: MBCEEV. ISSN: 1059-1524.
AU Sigl, Eva Maria [Reprint author]; Zakalskiy, Andriy; Zisser, Gertrude; Wendler, Franz; Bergler, Helmut; Steven, A.; Hoegenauer, Gregor
AN 2002:175382 BIOSIS

L74 ANSWER 12 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 1
TI Expression patterns of diverse genes in response to gamma irradiation in Nicotiana tabacum.
SO Journal of Plant Biology, (June, 2000) Vol. 43, No. 2, pp. 82-87. print. ISSN: 1226-9239.
AU Cho, Hye Sun; Lee, Haeng Soon; Pai, Hyun-sook [Reprint author]
AN 2000:383768 BIOSIS

L74 ANSWER 13 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Functional domain analysis of the yeast ABC transporter Ycf1p by site-directed mutagenesis.
SO Journal of Biological Chemistry, (Aug. 13, 1999) Vol. 274, No. 33, pp. 23584-23590. print.
CODEN: JBCHA3. ISSN: 0021-9258.
AU Falcon-Perez, Juan M.; Mazon, Maria J.; Molano, Jesus; Eraso, Pilar [Reprint author]
AN 1999:468037 BIOSIS

L74 ANSWER 14 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1999154929 ESBIOBASE
TI Molecular cloning and characterization of MT-ACT48, a novel mitochondrial acyl-CoA thioesterase
AU Poupon V.; Begue B.; Gagnon J.; Dautry-Varsat A.; Cerf-Bensussan N.; Benmerah A.
CS A. Benmerah, CJF 97-10 INSERM, Faculte Necker-Enfants Malades, 156 rue de Vaugirard, 75756 Paris Cedex 15, France.
E-mail: benmerah@necker.fr
SO Journal of Biological Chemistry, (02 JUL 1999), 274/27 (19188-19194), 34 reference(s)
CODEN: JBCHA3 ISSN: 0021-9258
DT Journal; Article
CY United States
LA English
SL English

L74 ANSWER 15 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Dbp5, a DEAD-box protein required for mRNA export, is recruited to the cytoplasmic fibrils of nuclear pore complex via a conserved interaction with CAN/Nup159p.
SO EMBO (European Molecular Biology Organization) Journal, (Aug. 2, 1999) Vol. 18, No. 15, pp. 4332-4347. print.
CODEN: EMJODG. ISSN: 0261-4189.
AU Schmitt, Christel; von Kobbe, Cayetano; Bachi, Angela; Pante, Nelly; Rodrigues, Joao P.; Boscheron, Cecile; Rigaut, Guillaume; Wilm, Matthias; Seraphin, Bertrand; Carmo-Fonseca, Maria; Izaurralde, Elisa [Reprint author]
AN 1999:449640 BIOSIS

L74 ANSWER 16 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Molecular **engineering** of **plants** with tolerance to photooxidative damage
SO Tanpakushitsu Kakusan Koso (1999), 44(15, Zokan), 2246-2252
CODEN: TAKKAJ; ISSN: 0039-9450
AU Shigeoka, Shigeru; Tamoi, Masahiro; Miyagawa, Yoshiko
AN 1999:723375 HCAPLUS

DN 131:334556

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AU Pan S.-M.; Hwang G.-B.; Liu H.-C.
CS S.-M. Pan, Department of Botany, National Taiwan University, Taipei, Taiwan.
E-mail: pan@ccms.ntu.edu.tw
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CODEN: BBASA6 ISSN: 0006-8063
DT Journal; Article
CY Taiwan, Province of China
LA English
SL English; Chinese

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CODEN: JCTBED. ISSN: 0268-2575.
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ISSN: 0006-8063.
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CODEN: PIXXD2
IN Rose, Alan B.; Last, Robert L.
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9814604	A1	19980409	WO 1997-US18024	19971002
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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L74 ANSWER 26 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
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AU Meskiene I.; Bogre L.; Glaser W.; Balog J.; Brandstotter M.; Zwerger K.; Ammerer G.; Hirt H.

CS H. Hirt, Inst. of Microbiology and Genetics, Vienna Biocenter, Dr. Bohrgasse 9, A-1030 Vienna, Austria.
E-mail: HEHI@GEM.UNIVIE.AC.AT
SO Proceedings of the National Academy of Sciences of the United States of America, (17 FEB 1998), 95/4 (1938-1943), 29 reference(s)
CODEN: PNASA6 ISSN: 0027-8424
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CY United States
LA English
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AN 1998244972 ESBIOBASE
TI Cloning, recombinant expression and characterization of wild type-105-Trp-calmodulin of the green alga Mougeotia scalaris
AU Zorb Chr.; Brunner K.D.; Perbandt M.; Betzel Chr.; Wagner G.
CS Chr. Zorb, Membran- und Bewegungsphysiologie, Fachbereich Biologie - Botanik, Justus-Liebig-Universitat, Senckenbergstrasse 17, D-35 390 Giessen, Germany.
E-mail: Christian.Zoerb@bot1.bio.uni-giessen.de
SO Botanica Acta, (1998), 111/5 (346-353), 59 reference(s)
CODEN: BOACEJ ISSN: 0932-8629
DT Journal; Article
CY Germany, Federal Republic of
LA English
SL English

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AN 1998180660 ESBIOBASE
TI Expression of sunflower homeodomain containing proteins in Escherichia coli: Purification and functional studies
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CS R.L. Chan, Area Biologia Molecular, Fac. de Cie. Bioquim. Farmaceuticas, Prog. Multidisciplinario Biol. Exp., Suipacha 531, 2000 Rosario, Argentina.
E-mail: chan@unrobi.edu.ar
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CODEN: PEXPEJ ISSN: 1046-5928
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CY United States
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DN 128:58322

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,

ML, MR, NE, SN, TD, TG
AU 9731394 A1 19971209 AU 1997-31394 19970520

L74 ANSWER 30 OF 61 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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CODEN: AEMIDF ISSN: 0099-2240
AU Chen S; *Wilson D B
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ISSN: 0137-5881.
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TI Soluble overexpression in Escherichia coli, and purification and characterization of wild-type recombinant tobacco acetolactate synthase
AU Chang S.-I.; Kang M.-K.; Choi J.-D.; Namgoong S.K.
CS S.-I. Chang, Department of Biochemistry, Chungbuk National University, Cheongju 361-763, South Korea.
E-mail: sichang@cbucc.chungbuk.ac.kr
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L74 ANSWER 35 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1997163181 ESBIOBASE
TI Expression, purification and characterization of GDP-D-mannose 4,6-dehydratase from Escherichia coli

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CS M. Tonetti, Institute of Biochemistry, University of Genova, Viale Bendetto XV, 1, 16132 Genova, Italy.
E-mail: toninodf@uniqe.it
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CODEN: FEBLAL ISSN: 0014-5793
PUI S001457939700762X
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CS A.O. Jackson, Department of Plant Biology, University of California, Berkeley, CA 94720, United States.
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CODEN: JGVIAY ISSN: 0022-1317
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L74 ANSWER 42 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN
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L74 ANSWER 43 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
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TI The precursor of pea ferredoxin-NADP.sup.+ reductase synthesized in Escherichia coli contains bound FAD and is transported into chloroplasts
AU Serra E.C.; Krapp A.R.; Ottado J.; Feldman M.F.; Ceccarelli E.A.; Carrillo N.
CS N. Carrillo, Molecular Biology Section, Departamento de Ciencias Biologicas, Universidad Nacional de Rosario, Suipacha 531, Rosario 2000, Argentina.
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CODEN: JBCHA3 ISSN: 0021-9258
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TI In vitro mutation analysis of Arabidopsis thaliana small GTP-binding proteins and detection of GAP-like activities in **plant** cells
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CS H. Uchimiya, Institute Molecular/Cell Biosciences, University of Tokyo, Bunkyo-ku, Tokyo 113, Japan.
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CODEN: FEBLAL ISSN: 0014-5793
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L74 ANSWER 57 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 7
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L74 ANSWER 58 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
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L74 ANSWER 61 OF 61 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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SO Plant Mol.Biol.; (1986) 6, 4, 203-11
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=> d ab 2

L74 ANSWER 2 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN
AB The present invention relates to the use of **glutathione-S-transferase** (**GST**) gene to uncrease stress tolerance in **plants**, particularly crop **plants.** The invention provides a method of preparing a **plant** which is tolerant to stress comprising incorporation a DNA encoding the **GST**-II-27 kD subunit into the **plant** or **plant** progenitor material such that a **GST** enzyme is produced. Preferred types of

plants for use in the method of the invention are maize and rice.

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=> s l12 and herbicide#
FILE 'MEDLINE'
         10536 HERBICIDE#
L75        114 L1 AND HERBICIDE#

FILE 'SCISEARCH'
         25417 HERBICIDE#
L76        278 L2 AND HERBICIDE#

FILE 'LIFESCI'
          6331 HERBICIDE#
L77         76 L3 AND HERBICIDE#

FILE 'BIOTECHDS'
          5784 HERBICIDE#
L78         53 L4 AND HERBICIDE#

FILE 'BIOSIS'
         49787 HERBICIDE#
L79        350 L5 AND HERBICIDE#

FILE 'EMBASE'
          9807 HERBICIDE#
L80         78 L6 AND HERBICIDE#

FILE 'HCAPLUS'
         83047 HERBICIDE#
L81        401 L7 AND HERBICIDE#

FILE 'NTIS'
          3765 HERBICIDE#
L82          0 L8 AND HERBICIDE#

FILE 'ESBIOBASE'
          8422 HERBICIDE#
L83        135 L9 AND HERBICIDE#

FILE 'BIOTECHNO'
          3463 HERBICIDE#
L84         72 L10 AND HERBICIDE#

FILE 'WPIDS'
         31262 HERBICIDE#
L85         44 L11 AND HERBICIDE#

TOTAL FOR ALL FILES
L86       1601 L12 AND HERBICIDE#

=> s l86 and (muta? or modif? or variant#)
FILE 'MEDLINE'
        501919 MUTA?
        397700 MODIF?
        109683 VARIANT#
L87         13 L75 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'SCISEARCH'
        486638 MUTA?
        535945 MODIF?
        121138 VARIANT#
L88         29 L76 AND (MUTA? OR MODIF? OR VARIANT#)
```

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FILE 'LIFESCI'
        221645 MUTA?
         99683 MODIF?
         37047 VARIANT#
L89          5 L77 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOTECHDS'
         44446 MUTA?
         36930 MODIF?
         15073 VARIANT#
L90         19 L78 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOSIS'
        545848 MUTA?
        391569 MODIF?
        112196 VARIANT#
L91         21 L79 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'EMBASE'
        418280 MUTA?
        354824 MODIF?
         95432 VARIANT#
L92          8 L80 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'HCAPLUS'
        512075 MUTA?
        951973 MODIF?
        108568 VARIANT#
L93         40 L81 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'NTIS'
         10034 MUTA?
         97647 MODIF?
          4627 VARIANT#
L94          0 L82 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'ESBIOBASE'
        255340 MUTA?
        157404 MODIF?
         45439 VARIANT#
L95         15 L83 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOTECHNO'
        242571 MUTA?
         86734 MODIF?
         41198 VARIANT#
L96          5 L84 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'WPIDS'
         28385 MUTA?
        281681 MODIF?
         26959 VARIANT#
L97         25 L85 AND (MUTA? OR MODIF? OR VARIANT#)

TOTAL FOR ALL FILES
L98        180 L86 AND (MUTA? OR MODIF? OR VARIANT#)

=> s l98 not 2001-2005/py
FILE 'MEDLINE'
       2821767 2001-2005/PY
L99          5 L87 NOT 2001-2005/PY

FILE 'SCISEARCH'
       5297496 2001-2005/PY
```

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                (20010000-20059999/PY)
L100        14 L88 NOT 2001-2005/PY

FILE 'LIFESCI'
       513673 2001-2005/PY
L101         2 L89 NOT 2001-2005/PY

FILE 'BIOTECHDS'
       118977 2001-2005/PY
L102         6 L90 NOT 2001-2005/PY

FILE 'BIOSIS'
      2618573 2001-2005/PY
L103        12 L91 NOT 2001-2005/PY

FILE 'EMBASE'
      2432092 2001-2005/PY
L104         5 L92 NOT 2001-2005/PY

FILE 'HCAPLUS'
      5322712 2001-2005/PY
L105        19 L93 NOT 2001-2005/PY

FILE 'NTIS'
        79625 2001-2005/PY
L106         0 L94 NOT 2001-2005/PY

FILE 'ESBIOBASE'
      1484795 2001-2005/PY
L107         5 L95 NOT 2001-2005/PY

FILE 'BIOTECHNO'
       368875 2001-2005/PY
L108         4 L96 NOT 2001-2005/PY

FILE 'WPIDS'
      4680242 2001-2005/PY
L109         3 L97 NOT 2001-2005/PY

TOTAL FOR ALL FILES
L110        75 L98 NOT 2001-2005/PY

=> dup rem l110
PROCESSING COMPLETED FOR L110
L111        38 DUP REM L110 (37 DUPLICATES REMOVED)

=> d 1-10

L111  ANSWER 1 OF 38  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI    New glutathione-S-transferase enzymes and
      isolated nucleic acid fragments encoding them, useful for detoxifying
      xenobiotic compounds in plants and seeds, as well as in producing
      transgenic plants that are herbicide resistant;
         transgenic plant construction with herbicide resistance
AU    McGonigle B; O'Keefe D P
AN    2000-10380  BIOTECHDS
PI    US 6063570 16 May 2000

L111  ANSWER 2 OF 38  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI    New nucleic acid fragment encoding maize glutathione-S
      -transferase enzyme for detoxifying xenobiotic compounds in
      plants and seeds, comprises a specific nucleotide sequence;
         for use in xenobiotic degradation
AU    McGonigle B; O'Keefe D P
```

AN 2000-13421 BIOTECHDS
PI US 6096504 1 Aug 2000

L111 ANSWER 3 OF 38 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
TI Toxic action/toxicity.
SO Biological Reviews of the Cambridge Philosophical Society, (2000) Vol. 75, No. 1, pp. 95-127.
Refs: 172
ISSN: 1464-7931 CODEN: BRCPAH
AU Hathway D.E.
AN 2000091481 EMBASE

L111 ANSWER 4 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI The molecular basis of **herbicide** resistance
SO Herbicides and Their Mechanisms of Action (2000), 72-104. Editor(s): Cobb, Andrew H.; Kirkwood, Ralph C. Publisher: Sheffield Academic Press, Sheffield, UK.
CODEN: 69CBIO
AU Devine, Malcolm D.; Preston, Christopher
AN 2001:890239 HCAPLUS
DN 136:81261

L111 ANSWER 5 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of atrazine and spermine on free proline content and some antioxidants in pea (Pisum sativum L.) plants
SO Dokladi na Bulgarskata Akademiya na Naukite (2000), 53(10), 63-66
CODEN: DBANEH; ISSN: 0861-1459
AU Sergiev, I.; Alexieva, V.; Yanev, S.; Karanov, E.
AN 2001:373755 HCAPLUS
DN 135:42199

L111 ANSWER 6 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Metabolic **modification** of isoimide type peroxidizing compounds catalyzed by an isoenzyme of **glutathione S-transferase**
SO Peroxidizing Herbicides (1999), 191-211. Editor(s): Boeger, Peter; Wakabayashi, Ko. Publisher: Springer, Berlin, Germany.
CODEN: 67QRAI
AU Sato, Yukiharu
AN 1999:315115 HCAPLUS
DN 130:348452

L111 ANSWER 7 OF 38 MEDLINE on STN DUPLICATE 2
TI Functional complementation of anthocyanin sequestration in the vacuole by widely divergent **glutathione S-transferases.**
SO Plant cell, (1998 Jul) 10 (7) 1135-49.
Journal code: 9208688. ISSN: 1040-4651.
AU Alfenito M R; Souer E; Goodman C D; Buell R; Mol J; Koes R; Walbot V
AN 1998334529 MEDLINE

L111 ANSWER 8 OF 38 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 3
TI Effects of the agrochemicals butachlor, pretilachlor and isoprothiolane on rat liver xenobiotic-metabolizing enzymes.
SO Xenobiotica, (1998) Vol. 28, No. 11, pp. 1029-1039.
Refs: 37
ISSN: 0049-8254 CODEN: XENOBH
AU Ishizuka M.; Iwata H.; Kazusaka A.; Hatakeyama S.; Fujita S.
AN 1998420614 EMBASE

L111 ANSWER 9 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Cloning and expression analyses of AtMRP4 a novel MRP-like gene from

Arabidopsis thaliana
SO MOLECULAR AND GENERAL GENETICS, (JUN 1998) Vol. 258, No. 6, pp. 655-662.
ISSN: 0026-8925.
AU Sanchez-Fernandez R; Ardiles-Diaz W; Van Montagu M (Reprint); Inze D; May M J
AN 1998:540535 SCISEARCH

L111 ANSWER 10 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 4
TI Expression in Escherichia coli, purification, and characterization of the tobacco sulfonylurea **herbicide**-resistant recombinant acetolactate synthase and its interaction with the triazolopyrimidine **herbicides**
SO JOURNAL OF BIOCHEMISTRY AND MOLECULAR BIOLOGY, (31 MAY 1998) Vol. 31, No. 3, pp. 287-295.
ISSN: 1225-8687.
AU Kil M W; Chang S I (Reprint)
AN 1998:446952 SCISEARCH

=> d 11-38

L111 ANSWER 11 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Enhanced **glutathione S-transferase** activity in velvetleaf biotypes possessing selected, triazine **herbicide** resistance.
SO Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27 (1998), AGRO-035 Publisher: American Chemical Society, Washington, D. C.
CODEN: 66KYA2
AU Balke, N. E.
AN 1998:524303 HCAPLUS

L111 ANSWER 12 OF 38 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Chemically inducible promoter from the **glutathione S-transferase** gene - provides inducible gene expression in plants, especially with **herbicide** safeners as inducer.
PI WO 9711189 A2 19970327 (199718)* EN 49 C12N015-82
RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG
W: AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN
AU 9668321 A 19970409 (199731) C12N015-82
EP 859850 A1 19980826 (199838) EN C12N015-82
R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
CN 1202203 A 19981216 (199918) C12N015-82
HU 9901094 A2 19990728 (199936) C12N015-82
BR 9610573 A 19990706 (199938) C12N015-82
US 5965387 A 19991012 (199949) C12N015-00
JP 11514222 W 19991207 (200008) 52 C12N015-09
AU 715535 B 20000203 (200016) C12N015-82
MX 9802193 A1 19981101 (200022) C12N015-82
IN BEVAN, M; GREENLAND, A J; JEPSON, I; SHEPPARD, H

L111 ANSWER 13 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Analysis of a Rhizobium leguminosarum gene encoding a protein homologous to **glutathione S-transferases**
SO MICROBIOLOGY-UK, (MAR 1997) Vol. 143, Part 3, pp. 813-822.
ISSN: 1350-0872.
AU Alkafaf N K T (Reprint); Yeoman K H; Wexler M; Hussain H; Johnston A W B
AN 1997:219500 SCISEARCH

L111 ANSWER 14 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Toxic effects of paraquat **herbicide** in albino mice
SO Al-Azhar Bulletin of Science (1997), 8(2), 691-704
CODEN: ABSCE7; ISSN: 1110-2535
AU Eweis, Essam. A.
AN 1998:726006 HCAPLUS
DN 130:106277

L111 ANSWER 15 OF 38 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1997147773 ESBIOBASE
TI Soluble overexpression in Escherichia coli, and purification and characterization of wild-type recombinant tobacco acetolactate synthase
AU Chang S.-I.; Kang M.-K.; Choi J.-D.; Namgoong S.K.
CS S.-I. Chang, Department of Biochemistry, Chungbuk National University, Cheongju 361-763, South Korea.
E-mail: sichang@cbucc.chungbuk.ac.kr
SO Biochemical and Biophysical Research Communications, (1997), 234/3 (549-553), 35 reference(s)
CODEN: BBRCA0 ISSN: 0006-291X
DT Journal; Article
CY United States
LA English
SL English

L111 ANSWER 16 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Transgenic plant analysis as a tool for the study of maize **glutathione S-transferases**
SO NATO ASI Series, Series 3: High Technology (1997), 37(Regulation of Enzymatic Systems Detoxifying Xenobiotics in Plants), 313-323
CODEN: NAHTF4; ISSN: 1383-7168
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AN 1998:104058 HCAPLUS
DN 128:241898

L111 ANSWER 17 OF 38 MEDLINE on STN DUPLICATE 5
TI Peroxisome proliferators increase the formation of BPDE-DNA adducts in isolated rat hepatocytes.
SO Toxicology, (1997 Sep 26) 122 (1-2) 81-91.
Journal code: 0361055. ISSN: 0300-483X.
AU Voskoboinik I; Ooi S G; Drew R; Ahokas J T
AN 97418728 MEDLINE

L111 ANSWER 18 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 6
TI Purification of multiple glutathione transferases involved in **herbicide** detoxification from wheat (Triticum aestivum L.) treated with the safener fenchlorazole-ethyl
SO PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY, (1997) Vol. 59, No. 1, pp. 35-49.
ISSN: 0048-3575.
AU Cummins I; Cole D J; Edwards R (Reprint)
AN 1998:299188 SCISEARCH

L111 ANSWER 19 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Kinetics study of **glutathione S-transferase** Langmuir-Blodgett films
SO THIN SOLID FILMS, (15 SEP 1996) Vol. 285, pp. 854-858.
ISSN: 0040-6090.
AU Paddeu S (Reprint); Erokhin V; Nicolini C
AN 1996:871275 SCISEARCH

L111 ANSWER 20 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 7
TI Enzyme-**modified** phytotoxic structure of thiadiazolidine

compounds
SO ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, (JUL-AUG 1996) Vol. 51, No. 7-8, pp. 518-526.
ISSN: 0939-5075.
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AN 1996:653299 SCISEARCH

L111 ANSWER 21 OF 38 MEDLINE on STN DUPLICATE 8
TI A naturally occurring point **mutation** confers broad range tolerance to **herbicides** that target acetolactate synthase.
SO Journal of biological chemistry, (1995 Jul 21) 270 (29) 17381-5.
Journal code: 2985121R. ISSN: 0021-9258.
AU Bernasconi P; Woodworth A R; Rosen B A; Subramanian M V; Siehl D L
AN 95340531 MEDLINE

L111 ANSWER 22 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI HEAT-STABLE LANGMUIR-BLODGETT-FILM OF **GLUTATHIONE-S-TRANSFERASE**
SO LANGMUIR, (JUL 1995) Vol. 11, No. 7, pp. 2719-2725.
ISSN: 0743-7463.
AU ANTOLINI F (Reprint); PADDEU S; NICOLINI C
AN 1995:505993 SCISEARCH

L111 ANSWER 23 OF 38 MEDLINE on STN
TI Induction of hepatic drug-metabolizing enzymes by chlornitrofen (CNP) and CNP-amino in rats and mice.
SO Chemosphere, (1995 Apr) 30 (7) 1297-309.
Journal code: 0320657. ISSN: 0045-6535.
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AN 95268807 MEDLINE

L111 ANSWER 24 OF 38 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 9
TI Sequence analysis of a gene cluster involved in metabolism of 2,4,5-trichlorophenoxyacetic acid by Burkholderia cepacia AC1100
SO APPL. ENVIRON. MICROBIOL., (1995) vol. 61, no. 4, pp. 1279-1289.
ISSN: 0099-2240.
AU Daubaras, D.L.; Hershberger, C.D.; Kitano, K.; Chakrabarty, A.M.*
AN 95:75721 LIFESCI

L111 ANSWER 25 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI **Glutathione-S-transferase** activity and metabolism of glutathione conjugates by rhizosphere bacteria; glutathione-transferase activity detection on 1-chloro-2,4-dinitrobenzene substrate, for application in alachlor pesticide degradation
SO Appl.Environ.Microbiol.; (1995) 61, 3, 1054-60
CODEN: AEMIDF ISSN: 0099-2240
AU Zablotowicz R M; Hoagland R E; Locke M A; Hickey W J
AN 1995-06790 BIOTECHDS

L111 ANSWER 26 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI MOLECULAR ANALYSIS AND MAPPING OF 2 GENES ENCODING MAIZE **GLUTATHIONE S-TRANSFERASES** (**GST**-I AND **GST**-II)
SO MOLECULAR & GENERAL GENETICS, (20 SEP 1995) Vol. 248, No. 5, pp. 535-539.
ISSN: 0026-8925.
AU ROSSINI L (Reprint); PE M E; FROVA C; HEIN K; SARIGORLA M
AN 1995:700835 SCISEARCH

L111 ANSWER 27 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on

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TI Langmuir-Blodgett film of **glutathione S-transferase** immobilised on silanized surfaces
SO THIN SOLID FILMS, (1 NOV 1995) Vol. 268, No. 1-2, pp. 108-113.
ISSN: 0040-6090.
AU Paddeu S (Reprint); Antolini F; Dubrovsky T; Nicolini C
AN 1996:23322 SCISEARCH

L111 ANSWER 28 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 10
TI WEEDY ADAPTATION IN SETARIA SPP .3. VARIATION IN **HERBICIDE** RESISTANCE IN SETARIA SPP
SO PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY, (FEB 1995) Vol. 51, No. 2, pp. 99-116.
ISSN: 0048-3575.
AU WANG R L (Reprint); DEKKER J
AN 1995:270553 SCISEARCH

L111 ANSWER 29 OF 38 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Effect of ethanol on paraquat toxicity in F344 rats.
SO Food and Chemical Toxicology, (1994) Vol. 32, No. 4, pp. 379-386.
CODEN: FCTOD7. ISSN: 0278-6915.
AU Puapairoj, P.; Cui, L.; Ogawa, K.; Akagi, K.; Hasegawa, R.; Ito, N. [Reprint author]
AN 1994:322937 BIOSIS

L111 ANSWER 30 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 11
TI GROWTH AND PHYSIOLOGICAL-RESPONSES OF SORGHUM CULTIVARS EXPOSED TO EXCESS H+ AND THE **HERBICIDE** METOLACHLOR
SO CANADIAN JOURNAL OF BOTANY-REVUE CANADIENNE DE BOTANIQUE, (APR 1993) Vol. 71, No. 4, pp. 533-540.
ISSN: 0008-4026.
AU WILKINSON R E (Reprint); DUNCAN R R; MEREDITH S A; HATZIOS K K
AN 1993:431269 SCISEARCH

L111 ANSWER 31 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 12
TI DIALLATE, TRIALLATE, AND SULFALLATE **HERBICIDES** - IDENTIFICATION OF THIOCARBAMATE SULFOXIDES, CHLOROACROLEINS, AND CHLOROALLYLTHIOLS AS MOUSE MICROSOMAL OXIDASE AND **GLUTATHIONE-S-TRANSFERASE** METABOLITES
SO JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, (AUG 1991) Vol. 39, No. 8, pp. 1504-1508.
ISSN: 0021-8561.
AU MAIR P (Reprint); CASIDA J E
AN 1991:481069 SCISEARCH

L111 ANSWER 32 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of β-naphthoflavone and MCPA on liver and kidney drug-metabolizing enzymes form the carp, Cyprinus carpio
SO Ecotoxicology and Environmental Safety (1990), 19(3), 276-84
CODEN: EESADV; ISSN: 0147-6513
AU Riviere, J. L.; Devaux, A.; Gonin, O.; Monod, G.
AN 1990:472768 HCAPLUS
DN 113:72768

L111 ANSWER 33 OF 38 MEDLINE on STN DUPLICATE 13
TI Total chemical synthesis and expression in Escherichia coli of a maize glutathione-transferase (**GST**) gene.
SO Gene, (1989 Mar 15) 76 (1) 153-60.
Journal code: 7706761. ISSN: 0378-1119.
AU Wosnick M A; Barnett R W; Carlson J E

AN 89306650 MEDLINE

L111 ANSWER 34 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Total chemical synthesis and expression of a maize glutathione-transferase (**GST**) gene;
for expression of **herbicide** tolerance in transgenic plant (conference abstract)
SO Genome; (1988) 30, Suppl.1, 486
CODEN: GENOE3
AU Wosnick M A; Barnett R W; Carlson J E
AN 1989-04000 BIOTECHDS

L111 ANSWER 35 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN
TI **Glutathione S-transferase** gene cloning and its use in preparation of **herbicide**-tolerant plants
SO Jpn. Kokai Tokkyo Koho, 34 pp.
CODEN: JKXXAF
AN 1988:449623 HCAPLUS
DN 109:49623

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62296882	A2	19871224	JP 1987-120327	19870519
	JP 2511036	B2	19960626		
	CH 689454	A	19990430	CH 1987-1874	19870515
	DK 8702506	A	19871120	DK 1987-2506	19870518
	FI 8702178	A	19871120	FI 1987-2178	19870518
	NO 8702075	A	19871120	NO 1987-2075	19870518
	AU 8773146	A1	19871126	AU 1987-73146	19870518
	AU 610825	B2	19910530		
	ZA 8703538	A	19880127	ZA 1987-3538	19870518
	HU 44075	A2	19880128	HU 1987-2208	19870518
	HU 210505	B	19950428		
	EP 256223	A1	19880224	EP 1987-107137	19870518
	R: AT, BE, DE, ES, FR, GB, GR, IT, LU, NL, SE				
	DD 273855	A5	19891129	DD 1987-302873	19870518
	DD 279269	A5	19900530	DD 1987-326337	19870518
	IL 82557	A1	19930221	IL 1987-82557	19870518
	BR 8702542	A	19880223	BR 1987-2542	19870519
	CN 87104489	A	19880504	CN 1987-104489	19870519
	CN 1024021	B	19940316		
	CA 1339629	A1	19980113	CA 1987-537339	19870519
	US 5073677	A	19911217	US 1989-391632	19890804

L111 ANSWER 36 OF 38 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI **Herbicide** tolerant plants - obtd. by recombinant DNA methods, and comprise genetic sequence coding for **glutathione S -transferase** gene.

PI	AU 8773146	A	19871126 (198803)*	75	
	NO 8702075	A	19871214 (198804)		
	JP 62296882	A	19871224 (198806)		
	DK 8702506	A	19871120 (198808)		
	EP 256223	A	19880224 (198808)	GE	
	R: AT BE DE ES FR GB GR IT LU NL SE				
	ZA 8703538	A	19871119 (198809)		
	FI 8702178	A	19871120 (198810)		
	HU 44075	T	19880128 (198810)		
	BR 8702542	A	19880223 (198813)		
	PT 84888	A	19880527 (198826)		
	CN 87104489	A	19880504 (198924)		
	DD 273855	A	19891129 (199019)		
	DD 279269	A	19900530 (199044)		
	IL 82557	A	19930221 (199314)		C12N015-54
	HU 210505	B	19950428 (199523)		C12N015-05
	CN 1024021	C	19940316 (199525)		C12N015-54

JP 2511036 B2 19960626 (199630) 32 C12N015-09
CA 1339629 C 19980113 (199816) C12N005-10
CH 689454 A5 19990430 (199922) C12N015-63
IN CHILTON, M D; DUESING, J; HELMER, G; LAI, H C J; ROTHSTEIN, S; SCARAFIA, L; TU, C P D; CHILTON, M; LAI, H J; TU, C D; HERMER, J; LAI, H; TU, C

L111 ANSWER 37 OF 38 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 14
TI EFFECTS OF S ETHYL-N N-DIPROPYLTHIOCARBAMATE EPTC ON NORMAL AND DWARF SEEDLINGS OF ZEA-MAYS L.
SO Biochemie und Physiologie der Pflanzen (BPP), (1987) Vol. 182, No. 3, pp. 257-260.
CODEN: BPPFA4. ISSN: 0015-3796.
AU KOMIVES T [Reprint author]; HULESCH A; KOMIVES A V; DUTKA F
AN 1987:424997 BIOSIS

L111 ANSWER 38 OF 38 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 15
TI IMMUNOFLUORESCENCE LOCALIZATION OF CONJUGATED ATRAZINE IN LEAF PIECES OF CORN ZEA-MAYS.
SO Zeitschrift fuer Pflanzenkrankheiten und Pflanzenschutz, (1986) Vol. 93, No. 6, pp. 608-613.
CODEN: ZPFPAA. ISSN: 0340-8159.
AU HUBER S J [Reprint author]; SAUTTER C
AN 1987:193347 BIOSIS

=> d ab 2-4

L111 ANSWER 2 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB An isolated nucleic acid fragment (I) encoding a maize (Zea mays) glutathione-transferase (**GST**, EC-2.5.1.18) is claimed. Also claimed are: a chimeric gene comprising (I) operably linked to suitable regulatory sequences; a transformed host cell; altering the level of expression of **GST** in a host cell by transforming the host cell; and obtaining a nucleic acid fragment encoding all or a substantial portion of an amino acid sequence encoding a **GST** enzyme by probing a cDNA or genomic library with a nucleic acid fragment. (I) is useful for producing a **GST** enzyme which is used for detoxifying xenobiotic compounds in plants and seeds and as targets to facilitate design and/or identification of inhibitors of the enzymes that may be useful as **herbicides** or **herbicide** synergists. (I) is useful as a DNA probe for genetically and physically mapping the genes that they are part of, and as markers for traits linked to the expression of the instant enzymes. Such information is useful in plant breeding in order to develop lines with a desired phenotypes or in the identification of **mutants.** (I) is also useful as restriction fragment length polymorphism markers. (62pp)

L111 ANSWER 3 OF 38 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
AB Some six or so physiological systems, essential to normal mammalian life, are involved in poisoning; an intoxication that causes severe injury to any one of them could be life threatening. Reversible chemical reactions showing Scatchard-type binding are exemplified by CO, CN- and cyclodiene neurotoxin insecticide intoxications, and by antigen-antibody complex formation. Haemoglobin (Hb) molecular biology accounts for the allosteric co-operativity and other characteristics of CO poisoning, CN- acts as a powerful cytochrome oxidase inhibitor, and antigen binding in a deep antibody cleft between two domains equipped with epitopes for antigen-binding groups explains hapten-specific immune reactions. Covalent chemical reactions with second-order (S(N)2) kinetics characterize Hg and Cd poisonings, the reactions of organophosphates and phosphonates with acetylcholinesterase and neurotoxic esterase and the

reaction sequence whereby Paraquat accepts electrons and generates superoxide under aerobic conditions. Indirect carcinogens require cytochrome P450 activation to form DNA adducts in target-organ DNA and cause cancer, but a battery of detoxifying enzymes clustered with the P450 system must be overcome. Thus, S-metabolism competes ineffectively with target DNA for reactive vinyl chloride (VC) metabolites, epoxide hydrolase is important to the metabolism and carcinogenicity of aflatoxins and polycyclic aromatic hydrocarbons (benzo[a]pyrene, etc.), and the non-toxic 2-naphthylhydroxylamine N-glucuronide acts as a transport form in 2-naphthylamine bladder cancer. VC liver-cancer pathogenesis is explicable in terms of the presence of the **glutathione S -transferase** detoxifying system in hepatocytes and its absence from the fibroblastic elements, and of the VC concentrations reaching the liver by different administrative routes. In VC carcinogenicity, chemical reactions give imidazo-cyclization products with nucleoside residues of target DNA, and in benzene leukaemia, Z,Z-muconaldehyde forms cyclic products containing a pyrrole residue linked to purine. Increased HbCO concentrations reduce the O2-carrying capacity of the blood, and the changed shape of the O2-Hb dissociation curve parallels disturbance in O2 unloading. CN- acts on electron transport and paralyses respiration. In telodrin poisoning, preconvulsive glutamine formation abstracts tricarboxylic acid intermediates incommensurately with normal cerebral respiration. Antigen-antibody complexing depletes the antibody titre, available against infection. At high doses of Cd, Cd-thionein filtered through the kidneys is reabsorbed and tubular lesions produced. Some organophosphate insecticides promote irreversible acetylcholinesterase phosphorylation and blockade nerve function, and others react with neurotoxic esterase to cause delayed neuropathy. The evidence for Paraquat pulmonary poisoning suggests a radical mechanism involving three interrelated cyclic reaction stages. The action of N- and O6 (O substituent in 6-position of the purine) demethylases explains deletion mechanisms for DNA-alkyl adducts. DNA-directed synthesis in the presence of ultimate carcinogens provides for an estimation of misincorporations, which implicate the same transversions as those found by direct **mutagenicity** testing. Chemical carcinogens recognize tissue-sensitive cells and **modify** their heritable genetic complement. Oncoproteins encoded by activated oncogenes signal the transformation of normal cells into cancer cells. The importance of the H-ras oncogene and p53 tumour-suppressor gene is stressed. Antidotal action is analysed; for example, parenteral glutamine administration to telodrin-intoxicated rats restores the depleted cerebral glutamate level and prevents seizures. Glutamate acts as anticonvulsant in petit mal epilepsy. In general, therefore, the reaction of the toxicant-related substance with the relevant target-tissue macromolecule accounts for the biochemical/biological events at a cellular level and also the symptoms in the living mammal. This mechanism is analogous to mechanisms for diseases such as arthritis and Parkinsonism.

L111 ANSWER 4 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN

AB A review. Mechanisms that impart **herbicide** resistance to weeds and those conferring resistance on genetically **modified** crops are discussed. Resistance based on target site **modification** is characterized. The photosystem II D1 protein, photosystem I electron acceptor, protoporphyrinogen oxidase, acetolactate synthase, 5-enol-pyruvylshikimate-3-phosphate synthase, glutamine synthetase, acetyl-CoA carboxylase, α- and β-tubulin, auxin-binding protein, and p-hydroxyphenylpyruvate dioxygenase are considered. Resistance due to increased **herbicide** metabolism is reviewed. Glyphosate oxidoreductase, phosphinothricin acetyltransferase, nitrilase, 2,4-D dioxygenase, cytochrome P 450 monooxygenases, aryl acylamidase, **glutathione-S-transferases**, uridine diphosphate glycosyltransferases, **herbicide** conjugate transporters, and resistance due to lack of **herbicide** activation are included.

```
=> s l12 and (soy or glycine max)
FILE 'MEDLINE'
          6879 SOY
         43911 GLYCINE
         19617 MAX
          1467 GLYCINE MAX
                 (GLYCINE(W)MAX)
L112        24 L1 AND (SOY OR GLYCINE MAX)

FILE 'SCISEARCH'
         10760 SOY
         43107 GLYCINE
         67476 MAX
          9046 GLYCINE MAX
                 (GLYCINE(W)MAX)
L113        51 L2 AND (SOY OR GLYCINE MAX)

FILE 'LIFESCI'
          1992 SOY
         16761 "GLYCINE"
         17521 "MAX"
          5390 GLYCINE MAX
                 ("GLYCINE"(W)"MAX")
L114        13 L3 AND (SOY OR GLYCINE MAX)

FILE 'BIOTECHDS'
           968 SOY
          6560 GLYCINE
          3917 MAX
          3278 GLYCINE MAX
                 (GLYCINE(W)MAX)
L115        10 L4 AND (SOY OR GLYCINE MAX)

FILE 'BIOSIS'
         15720 SOY
         68269 GLYCINE
         45252 MAX
         21054 GLYCINE MAX
                 (GLYCINE(W)MAX)
L116        56 L5 AND (SOY OR GLYCINE MAX)

FILE 'EMBASE'
          4902 SOY
         40471 "GLYCINE"
         54246 "MAX"
           914 GLYCINE MAX
                 ("GLYCINE"(W)"MAX")
L117        16 L6 AND (SOY OR GLYCINE MAX)

FILE 'HCAPLUS'
         19925 SOY
        144957 GLYCINE
        836022 MAX
         21493 GLYCINE MAX
                 (GLYCINE(W)MAX)
L118        90 L7 AND (SOY OR GLYCINE MAX)

FILE 'NTIS'
           239 SOY
           702 GLYCINE
          2520 MAX
            80 GLYCINE MAX
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                (GLYCINE(W)MAX)
L119         0 L8 AND (SOY OR GLYCINE MAX)

FILE 'ESBIOBASE'
          2959 SOY
         17182 GLYCINE
         17585 MAX
          4730 GLYCINE MAX
                (GLYCINE(W)MAX)
L120        32 L9 AND (SOY OR GLYCINE MAX)

FILE 'BIOTECHNO'
          1310 SOY
         13489 GLYCINE
         11604 MAX
          1563 GLYCINE MAX
                (GLYCINE(W)MAX)
L121        14 L10 AND (SOY OR GLYCINE MAX)

FILE 'WPIDS'
         17414 SOY
         12200 GLYCINE
         96596 MAX
           381 GLYCINE MAX
                (GLYCINE(W)MAX)
L122         9 L11 AND (SOY OR GLYCINE MAX)

TOTAL FOR ALL FILES
L123       315 L12 AND (SOY OR GLYCINE MAX)

=> s l123 not 2001-2006/py
FILE 'MEDLINE'
       2840381 2001-2006/PY
L124         9 L112 NOT 2001-2006/PY

FILE 'SCISEARCH'
       5309377 2001-2006/PY
                (20010000-20069999/PY)
L125        24 L113 NOT 2001-2006/PY

FILE 'LIFESCI'
        513727 2001-2006/PY
L126         8 L114 NOT 2001-2006/PY

FILE 'BIOTECHDS'
        119025 2001-2006/PY
L127         6 L115 NOT 2001-2006/PY

FILE 'BIOSIS'
       2619206 2001-2006/PY
L128        30 L116 NOT 2001-2006/PY

FILE 'EMBASE'
       2434217 2001-2006/PY
L129         6 L117 NOT 2001-2006/PY

FILE 'HCAPLUS'
       5338778 2001-2006/PY
L130        34 L118 NOT 2001-2006/PY

FILE 'NTIS'
         79627 2001-2006/PY
L131         0 L119 NOT 2001-2006/PY
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FILE 'ESBIOBASE'
       1488707 2001-2006/PY
L132         18 L120 NOT 2001-2006/PY

FILE 'BIOTECHNO'
        368875 2001-2006/PY
L133         12 L121 NOT 2001-2006/PY

FILE 'WPIDS'
       4680242 2001-2006/PY
L134          1 L122 NOT 2001-2006/PY

TOTAL FOR ALL FILES
L135       148 L123 NOT 2001-2006/PY

=> dup rem l135
PROCESSING COMPLETED FOR L135
L136          54 DUP REM L135 (94 DUPLICATES REMOVED)

=> d 1-20

L136  ANSWER 1 OF 54  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI    Soybean glutathione-transferase proteins and polynucleotides used to
      produce herbicide tolerant transgenic plants and to screen for inhibitors
      or substrates of the enzyme;
         involving vector-mediated chimeric gene transfer for expression in
         plant or Escherichia coli cell
AU    McGonigle B; O'Keefe D P
AN    2000-14241  BIOTECHDS
PI    WO 2000047728 17 Aug 2000

L136  ANSWER 2 OF 54  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI    Nucleic acids encoding soybean glutathione-S-
      transferase enzymes useful for conferring herbicide resistance to
      plants;
         constructing transgenic plant with altered level of
         glutathione-transferase enzyme
AU    McGonigle B; O'keefe D P
AN    2000-09508  BIOTECHDS
PI    WO 2000018936 6 Apr 2000

L136  ANSWER 3 OF 54  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI    New glutathione-S-transferase enzymes and
      isolated nucleic acid fragments encoding them, useful for detoxifying
      xenobiotic compounds in plants and seeds, as well as in producing
      transgenic plants that are herbicide resistant;
         transgenic plant construction with herbicide resistance
AU    McGonigle B; O'Keefe D P
AN    2000-10380  BIOTECHDS
PI    US 6063570 16 May 2000

L136 ANSWER 4 OF 54     MEDLINE on STN                  DUPLICATE 1
TI   A genomics approach to the comprehensive analysis of the
     glutathione S-transferase gene family in
     soybean and maize.
SO   Plant physiology, (2000 Nov) 124 (3) 1105-20.
     Journal code: 0401224. ISSN: 0032-0889.
AU   McGonigle B; Keeler S J; Lau S M; Koeppe M K; O'Keefe D P
AN   2001210879     MEDLINE

L136 ANSWER 5 OF 54  LIFESCI    COPYRIGHT 2006 CSA on STN
TI   A Genomics Approach to the Comprehensive Analysis of the
     Glutathione S-Transferase Gene Family in
     Soybean and Maize
```

SO Plant Physiology [Plant Physiol.], (20001100) vol. 124, no. 3, pp. 1007-1018.
ISSN: 0032-0889.
AU McGonigle, B.; Keeler, S.J.; Lau, S.C.; Koeppe, M.K.; O'Keefe, D.P.*
AN 2001:27534 LIFESCI

L136 ANSWER 6 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Enhancement of phase II and antioxidant enzymes in mice by soybeans fermented with basidiomycetes
SO Journal of Microbiology and Biotechnology (2000), 10(6), 851-857
CODEN: JOMBES; ISSN: 1017-7825
AU Shon, Yun-Hee; Kim, So-Yeun; Lee, Jae-Sung; Nam, Kyung-Soo
AN 2001:70326 HCAPLUS
DN 134:236828

L136 ANSWER 7 OF 54 MEDLINE on STN DUPLICATE 2
TI Vitamin E regulates changes in tissue antioxidants induced by fish oil and acute exercise.
SO Medicine and science in sports and exercise, (2000 Mar) 32 (3) 601-7.
Journal code: 8005433. ISSN: 0195-9131.
AU Atalay M; Laaksonen D E; Khanna S; Kaliste-Korhonen E; Hanninen O; Sen C K
AN 2000193267 MEDLINE

L136 ANSWER 8 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Developmental expression of **GST** activities in female Sprague-Dawley rats fed **soy** protein isolate-, whey protein- or casein-based diets.
SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2000) No. 41, pp. 443. print.
Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco, California, USA. April 01-05, 2000.
ISSN: 0197-016X.
AU Rowlands, J. Craig [Reprint author]; Ronis, Martin J. J. [Reprint author]; Hakkak, Rezza [Reprint author]; Badger, Thomas M. [Reprint author]
AN 2000:221749 BIOSIS

L136 ANSWER 9 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Two soybean glutathione transferases exhibit substrate and thiol specificity
SO Clinical Chemistry and Enzymology Communications (2000), 8(4-6), 389-392
CODEN: CCECEY; ISSN: 0892-2187
AU Skipsey, Mark; Andrews, Christopher J.; Townson, Jane K.; Jepson, Ian; Edwards, Robert
AN 2000:257174 HCAPLUS
DN 133:85946

L136 ANSWER 10 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3
TI Cloning and characterization of glyoxalase I from soybean
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (15 FEB 2000) Vol. 374, No. 2, pp. 261-268.
ISSN: 0003-9861.
AU Skipsey M; Andrews C J; Townson J K; Jepson I; Edwards R (Reprint)
AN 2000:143640 SCISEARCH

L136 ANSWER 11 OF 54 MEDLINE on STN DUPLICATE 4
TI Two expressed soybean genes with high sequence identity to tomato Ptil kinase lack autophosphorylation activity.
SO Archives of biochemistry and biophysics, (2000 Nov 15) 383 (2) 233-7.
Journal code: 0372430. ISSN: 0003-9861.
AU Staswick P
AN 2001128084 MEDLINE

L136 ANSWER 12 OF 54 MEDLINE on STN DUPLICATE 5

TI **Soy** induces phase II enzymes but does not inhibit dimethylbenz[a]anthracene-induced carcinogenesis in female rats.
SO Journal of nutrition, (1999 Oct) 129 (10) 1820-6.
Journal code: 0404243. ISSN: 0022-3166.
AU Appelt L C; Reicks M M
AN 1999429911 MEDLINE

L136 ANSWER 13 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 6
TI Early events in the signal pathway for the oxidative burst in soybean cells exposed to avirulent Pseudomonas syringae pv glycinea
SO PLANT PHYSIOLOGY, (AUG 1999) Vol. 120, No. 4, pp. 1137-1146.
ISSN: 0032-0889.
AU Rajasekhar V K (Reprint); Lamb C; Dixon R A
AN 1999:640037 SCISEARCH

L136 ANSWER 14 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 7
TI Differential gene expression in plants stressed by the peroxidizing herbicide oxyfluorfen
SO ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, (SEP-OCT 1999) Vol. 54, No. 9-10, pp. 764-770.
ISSN: 0939-5075.
AU Lederer B; Knorzer O C; Boger P (Reprint)
AN 1999:812364 SCISEARCH

L136 ANSWER 15 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN
TI The involvement of cysteine proteases and protease inhibitor genes in the regulation of programmed cell death in plants
SO Plant Cell (1999), 11(3), 431-443
CODEN: PLCEEW; ISSN: 1040-4651
AU Solomon, Mazal; Belenghi, Beatrice; Delledonne, Massimo; Menachem, Ester; Levine, Alex
AN 1999:233219 HCAPLUS
DN 131:29895

L136 ANSWER 16 OF 54 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 8
TI Two soybean glutathione transferases exhibit substrate and thiol specificity.
SO Clinical Chemistry and Enzymology Communications, (1999) Vol. 8, No. 4-6, pp. 389-392.
Refs: 3
ISSN: 0892-2187 CODEN: CCECEY
AU Skipsey M.; Andrews C.J.; Townson J.K.; Jepson I.; Edwards R.
AN 2000126082 EMBASE

L136 ANSWER 17 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 9
TI Antioxidative defense activation in soybean cells
SO PHYSIOLOGIA PLANTARUM, (NOV 1999) Vol. 107, No. 3, pp. 294-302.
ISSN: 0031-9317.
AU Knorzer O C; Lederer B; Durner J; Boger P (Reprint)
AN 2000:82637 SCISEARCH

L136 ANSWER 18 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Expression of a novel ethylene-producing bifunctional fusion enzyme in yeast
SO Botanical Bulletin of Academia Sinica (1999), 40(2), 107-114
CODEN: BBASA6; ISSN: 0006-8063
AU Lu, Bing Wen; Yu, Bing; Li, Ning
AN 1999:336512 HCAPLUS
DN 131:154150

L136 ANSWER 19 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Heterologous expression systems to study **glutathione-S-transferases** involved in herbicide metabolism; glutathione-transferase expression in transgenic plant, bacterium and application in herbicide pesticide degradation (conference abstract)
SO Abstr.Pap.Am.Chem.Soc.; (1999) 218 Meet., Pt.1, AGRO176
CODEN: ACSRAL ISSN: 0065-7727
218th ACS National Meeting, American Chemical Society, New Orleans, LA, USA, 22-26 August, 1999.
AU Andrews C J; Jepson I; Skipsey M; Townson J K; Edwards R
AN 2000-02087 BIOTECHDS

L136 ANSWER 20 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 10
TI Processed soybean foods
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
IN Kanke, Yusuke; Iwama, Akihiko; Iwasaki, Masae; Kaneko, Senri
AN 1998:586018 HCAPLUS
DN 129:202278

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10234326	A2	19980908	JP 1997-41788	19970226

=> d ab 1-3,9

L136 ANSWER 1 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB A nucleic acid (I) encoding a soybean (**Glycine max**) glutathione-transferase (**GST**, EC-2.5.1.18) enzyme, comprising one of 26 protein sequences containing 200-250 residues or a similar sequence, or its complement, is claimed. Also claimed are a protein encoded by (I); a chimeric gene comprising (I) linked to regulatory sequences; a plant or Escherichia coli host cell transformed with the gene; altering the level of soybean **GST** expression in a host involving transformation; obtaining a nucleic acid fragment encoding at least a substantial portion of the amino acid sequence encoding a soybean **GST**; identifying a chemical compound that inhibits soybean **GST** activity or a **GST** substrate; and identifying a chemical compound inhibiting soybean **GST** activity or a **GST** substrate. Its use is for the production of herbicide-tolerant transgenic plants and for the development of screening assays to identify **GST** inhibitors and substrates, which can be used as herbicide synergists. The recombinant **GST** enzymes can be used to produce enzyme specific antibodies which are used to detect the enzymes in situ in cells or in cell extracts.

L136 ANSWER 2 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB New nucleic acids (I) encoding soybean (**Glycine max**) glutathione-transferase (EC-2.5.1.18) (**GST**) enzymes (II) are claimed. Also claimed are: a nucleic acid fragment (I) encoding a soybean **GST**, selected from an isolated nucleic acid fragment encoding all or part of one of 14 defined amino acid sequences; a protein (II) encoded by (I); a chimeric gene (III) containing (I) linked to suitable regulatory sequences; a transformed host cell (Escherichia coli) containing (III); a method (METH1) of altering the level of expression of soybean **GST** enzymes in a host cell; a method (METH2) of obtaining a nucleic acid fragment encoding all or part of a soybean **GST** enzyme which involves synthesizing the primer and amplifying cDNA; the product of METH2; a method (METH3) for identifying a chemical compound that inhibits the activity of soybean **GST**; a method (METH4) (in the presence of thiol donor) of identifying a substrate for a **GST** enzyme encoded by (I). **GST** enzyme catalyzes the conjugation of glutathione, homoglutathione and other glutathione-like analogs. They are involved in the detoxification of these compounds and

also in the development of herbicide resistance in plants. (70pp)

L136 ANSWER 3 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB An isolated nucleic acid fragment (I) encoding glutathione-transferase (**GST**, EC-2.5.1.18), is claimed. Also claimed are: a chimeric gene comprising (I) operably linked to suitable regulatory sequences; a transformed host cell comprising a host cell and the chimeric gene; a method of altering the level of expression of a **GST** enzyme in a host cell involving transformation; and methods of obtaining a nucleic acid fragment encoding the **GST** by hybridizing or primer-directed amplification. (I) is useful in the construction of herbicide-tolerant transgenic plants, plants that are tolerant to a wide variety of stresses, or plants in which the **GST** enzymes are present at higher or lower levels than they are normally. The nucleic acid fragments are also useful as probes for genetically and physically mapping the genes that the are part of, and as markers for traits linked to expression of the enzymes. This will be useful in plant breeding in order to develop lines with desired phenotypes or in the identification of mutants. Methods of transgenic plant construction have altered levels of **GST** enzymes and screens for identifying soybean (**Glycine max**) **GST** enzyme substrates. (36pp)

L136 ANSWER 9 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN
AB Soybean (**Glycine max** L.) contains homoglutathione (hGSH) as the predominant free thiol, rather than glutathione (GSH). Two cDNAs encoding glutathione transferases from soybean have been isolated and subsequently over-expressed in Escherichia coli. Both recombinant enzymes were active as dimers (GmGST1-1, GmGST2-2) and showed **GST** and glutathione peroxidase activity toward diverse xenobiotics, including analogs of natural stress metabolites. GSH was the preferred thiol for conjugation by gmGST1-1 to most xenobiotics with the exception of selected di-Ph ether herbicides, where hGSH was preferred. GmGST2-2 also displayed thiol preference with respect to its xenobiotic conjugating activities. These results suggest that at least two soybean GSTs demonstrate thiol specificity as well as substrate-dependent specificity.

=> d ab 14,17

L136 ANSWER 14 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 7
AB The response of plants to the peroxidizing herbicide oxyfluorfen was investigated. The action of this p-nitrodiphenyl ether is based on inhibition of plastidic protoporphyrinogen oxidase, which leads to accumulation of protoporphyrin IX in the cytosol yielding reactive oxygen species by light activation. The induction of activities of antioxidative enzymes was followed in Nicotiana tabacum plants, var. BelW3. Glutathione reductase activity was elevated by 75% compared to control, monodehydroascorbate reductase by 65% and **glutathione S -transferase** by 110%. The mRNA of ascorbate peroxidase and catalase isoform 2 was induced, the catalase isoform 1 was reduced. These findings were confirmed and supported by measuring enzymatic activity changes in photoheterotrophically grown soybean (**Glycine max**) suspension cultures. To find a possible involvement of compounds regulating oxidative stress response, we investigated the influence of salicylic acid and BTH (benzo(1,2,3)thiadiazole-7-carbothioic acid S-methylester), both inducers of pathogen defense, on soybean cell suspension cultures. The specific activities of glutathione reductase, monodehydroascorbate reductase and **glutathione S-transferase** increased strongly, comparable to oxyfluorfen treatment. Both compounds protected the cells against oxyfluorfen-induced lipid peroxidation and alleviated the accumulation of protoporphyrin IX.

L136 ANSWER 17 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on

STN DUPLICATE 9

AB Suspension-cultured, photoheterotrophically grown, green soybean cells (**Glycine max** L,) were used to investigate alterations in the cellular contents of ascorbate and glutathione, as well as specific activities of antioxidative enzymes, elicited by salicylic acid (SA) and BTH [benzo(1,2,3) thiadiazole-7-carbothioic acid S-methylester]. Both antioxidants were positively regulated by 48-h incubations with SA and BTH, respectively; the latter induced a stronger increase in antioxidant levels compared to SA. The specific activities of glutathione reductase, monodehydroascorbate reductase and **glutathione S-transferase** increased strongly in soybean cells as a response to both SA and BTH. The enzyme activations observed were in the range of 2-8-fold, Catalase activity was also increased 2-fold by SA but decreased when cells were incubated with BTH. These results indicate an activation of the cellular antioxidative system at both the antioxidant and enzyme level. In addition, the effects of SA and BTH on phytotoxicity exerted by the peroxidizing herbicide oxyfluorfen were investigated. Both compounds protected soybean cells from herbicide-induced lipid peroxidation in a time- and concentration-dependent manner and strongly suppressed the herbicide-induced accumulation of protoporphyrin IX. SA as well as BTH antagonize the action of peroxidizing herbicides.

```
=> fil .becpat
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     462.26     462.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -2.25      -2.25

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 09:16:05 ON 05 JAN 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY.  SEE HELP USAGETERMS FOR DETAILS.

3 FILES IN THE FILE LIST

=> s (136 or 161 or 198 or 1123) and wo/pc and py>=2001 and pry<=2000 range=2001,
FILE 'BIOTECHDS'
         35607 WO/PC
        119010 PY>=2001
                 (PY>=2001)
         24671 PRY<=2000
                 (PRY<=2000)
L137         3 (L28 OR L53 OR L90 OR L115) AND WO/PC AND PY>=2001 AND PRY<=2000

FILE 'HCAPLUS'
        281792 WO/PC
       5045258 PY>=2001
        635870 PRY<=2000
L138        11 (L31 OR L56 OR L93 OR L118) AND WO/PC AND PY>=2001 AND PRY<=2000

FILE 'WPIDS'
        554405 WO/PC
       3815743 PY>=2001
                 (PY>=2001)
       1472019 PRY<=2000
                 (PRY<=2000)
L139         5 (L35 OR L60 OR L97 OR L122) AND WO/PC AND PY>=2001 AND PRY<=2000

TOTAL FOR ALL FILES
L140        19 (L36 OR L61 OR L98 OR L123) AND WO/PC AND PY>=2001 AND PRY<=2000

=> dup rem l140
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PROCESSING COMPLETED FOR L140
L141 13 DUP REM L140 (6 DUPLICATES REMOVED)

=> d tot

L141 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
TI Use of genes for herbicidal triketone resistant 4-hydroxyphenyl pyruvate dioxygenases of monocotyledonous **plants** in dicotyledonous **plants**
SO PCT Int. Appl., 112 pp.
CODEN: PIXXD2
IN Warner, Simon Anthony James; Hawkes, Timothy Robert; Andrews, Christopher John
AN 2002:449847 HCAPLUS
DN 137:29441

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002046387	A2	20020613	WO 2001-GB5028	20011114 <--
WO 2002046387	A3	20030116		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2427787	AA	20020613	CA 2001-2427787	20011114 <--
AU 2002014158	A5	20020618	AU 2002-14158	20011114 <--
EP 1341903	A2	20030910	EP 2001-982616	20011114 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004528821	T2	20040924	JP 2002-548105	20011114 <--
US 2004058427	A1	20040325	US 2003-416940	20031003 <--

L141 ANSWER 2 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New nuclear export signal peptide, useful for treating diseases, e.g. inflammation, associated with nuclear export and in drug screening; Stat protein-1, green fluorescent protein or glutathione-transferase fusion protein gene transfer, antisense DNA and drug screening useful for gene therapy and diagnosis
AU VINKEMEIER U
AN 2002-09891 BIOTECHDS
PI **WO** 2002006309 **24 Jan 2002**

L141 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
TI **Mutagenesis** of **plant** 5-enol pyruvyl shikimate phosphate synthetase for stable enzyme expression in transgenic **plant** for glyphosate resistant
SO PCT Int. Appl., 149 pp.
CODEN: PIXXD2
IN Warner, Simon Anthony James; Hawkes, Timothy Robert; Andrews, Christopher John
AN 2002:256481 HCAPLUS
DN 136:290008

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002026995	A1	20020404	WO 2001-GB4131	20010914 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,				

UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001087862	A5	20020408	AU 2001-87862	20010914 <--
EP 1325136	A1	20030709	EP 2001-967487	20010914 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014322	A	20040615	BR 2001-14322	20010914 <--
JP 2004528808	T2	20040924	JP 2002-530758	20010914 <--
CN 1541270	A	20041027	CN 2001-817399	20010914 <--
ZA 2003002168	A	20040216	ZA 2003-2168	20030318 <--
US 2003200560	A1	20031023	US 2003-380935	20030505 <--

L141 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
TI BAG proteins of Arabidopsis thaliana and their use in delaying senescence and improving disease and stress resistance in transgenic **plants**
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2
IN Dickman, Martin B.
AN 2002:220790 HCAPLUS
DN 136:229602

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022822	A2	20020321	WO 2001-US29169	20010914 <--
WO 2002022822	A3	20030807		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002116734	A1	20020822	US 2001-946805	20010904 <--
AU 2001091081	A5	20020326	AU 2001-91081	20010914 <--

L141 ANSWER 5 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Producing transgenic plants with desirable phenotypes for growing plants in salt-contaminated soil, involves transforming a plant with a heterologous nucleotide sequence encoding calcium-binding protein; vector-mediated calreticulin and reporter gene transfer, expression in host cell and Agrobacterium sp. for transgenic plant construction and improved salt tolerance, stress tolerance, disease-resistance, senescence andnutrition and animal feedstuff manufacture
AU WYATT S; TSOU P; ROBERTSON D; BOSS W F
AN 2002-05783 BIOTECHDS
PI **WO** 2001083789 **8 Nov 2001**

L141 ANSWER 6 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Novel **glutathione-S-transferase** and homoglutathione-synthetase sequences from soybean for producing plants which are resistant and tolerant to **herbicide** comprising fomesafen and/or acifluorfen; involving vector plasmid pCR2.1-mediated gene transfer for expression in Escherichia coli
AU Andrews C J; Jepson I; Townson J K; Edwards R; Cummins I; Skipsey M
AN 2001-09078 BIOTECHDS
PI **WO** 2001021770 **29 Mar 2001**

L141 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
TI Protein and cDNA sequences of three novel Papaver somniferum

glutathione-S-transferases, and uses thereof
SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
IN Facchini, Peter James
AN 2001:545875 HCAPLUS
DN 135:133153

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001053501	A2	20010726	WO 2001-IB205	20010118 <--
WO 2001053501	A3	20020307		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L141 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5
TI Protein and cDNA sequences of a novel insecticidal and nematicidal protein from Xerocomus chrysenteron
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
IN Fournier, Didier; Paquereau, Laurent; Klaebe, Alain; Chavant, Louis
AN 2001:12634 HCAPLUS
DN 134:96262

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001000840	A1	20010104	WO 2000-GB2453	20000623 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L141 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Method of screening for negative cross resistance
SO PCT Int. Appl., 53 pp.
CODEN: PIXXD2
IN Pittendrigh, Barry Robert; Murdock, Larry Lee; Gaffney, Patrick Joseph
AN 2001:886546 HCAPLUS
DN 136:17687

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001092561	A2	20011206	WO 2001-US18062	20010601 <--
WO 2001092561	A3	20021003		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2410584	AA	20011206	CA 2001-2410584	20010601 <--
EP 1287352	A2	20030305	EP 2001-941896	20010601 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L141 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Use of suicide genes under gamete-specific promoters to reduce or eliminate sexual transmission of a transgene
SO PCT Int. Appl., 81 pp.
CODEN: PIXXD2
IN Dellaporta, Stephen L.; Moreno, Maria A.
AN 2001:661636 HCAPLUS
DN 135:237578

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001064926	A2	20010907	WO 2001-US6249	20010228 <--
WO 2001064926	A3	20020502		
WO 2001064926	C1	20040212		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2401495	AA	20010907	CA 2001-2401495	20010228 <--
US 2002144305	A1	20021003	US 2001-794384	20010228 <--
US 6743968	B2	20040601		
EP 1263977	A2	20021211	EP 2001-916262	20010228 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004512007	T2	20040422	JP 2001-563615	20010228 <--
BR 2001008716	A	20041207	BR 2001-8716	20010228 <--
US 2004154054	A1	20040805	US 2004-801550	20040317 <--

L141 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Protein and cDNA sequences of a novel insecticidal endotoxin protein CRY from Paecilomyces farinosus
SO PCT Int. Appl., 72 pp.
CODEN: PIXXD2
IN Griffin, Jonathan; Carlile, Amanda Jane; Cayley, Patricia Jane; MacKay, Elaine Anne; Warner, Simon Anthony James; Vincent, Jason Leigh; Lee, Michael David
AN 2001:12635 HCAPLUS
DN 134:96263

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001000841	A1	20010104	WO 2000-GB2457	20000623 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1196585	A1	20020417	EP 2000-940623	20000623 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503060	T2	20030128	JP 2001-506833	20000623 <--
AU 778616	B2	20041216	AU 2000-55534	20000623 <--

L141 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Soybean **glutathione-S-transferase** enzymes
and cDNAs and methods for identifying inhibitors and substrates
SO U.S., 49 pp., Cont.-in-part of U.S. Ser. No. 924,747.
CODEN: USXXAM
IN McGonigle, Brian; O'Keefe, Daniel P.
AN 2001:7567 HCAPLUS
DN 134:67168

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 6168954	B1	20010102	US 1999-247373	19990210	<--
	US 6063570	A	20000516	US 1997-924747	19970905	
	WO 2000047728	A2	20000817	WO 2000-US3347	20000210	<--
	WO 2000047728	A3	20010125			
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
	EP 1151086	A2	20011107	EP 2000-911741	20000210	<--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					

L141 ANSWER 13 OF 13 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Screening activity/expression inhibitor of target gene encoded protein by co-culturing two cells, one of which expresses reporter gene, with test molecule and measuring activity/amount of the gene encoded protein.

PI	WO 2001040518	A1	20010607 (200143)*	EN	76	C12Q001-68	<--
	RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW						
	W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW						
	AU 2001019363	A	20010612 (200154)			C12Q001-68	<--
	EP 1235935	A1	20020904 (200266)	EN		C12Q001-68	<--
	R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR						
	US 6518035	B1	20030211 (200314)			C12Q001-00	<--
	JP 2003517308	W	20030527 (200344)		96	C12N015-09	<--

IN ASHBY, M; SHOEMAKER, D D

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	52.19	515.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.25

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